

PTO/SB/21 (08-00) Approved for use through 10/31/2002. OMB 051-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/681,007 TRANSMITTAL Oct 08, 2003 Filing Date **FORM First Named Inventor** Criminisi (to be used for all correspondence after initial filing) Group Art Unit Not Yet Assigned Not Yet Assigned **Examiner Name** Total Number of Pages in This Submission Attorney Docket Number MS1-1631US **ENCLOSURES** (check all that apply) After Allowance Communication Assignment Papers Fee Transmittal Form (for an Application) to Group Appeal Communication to Board Fee Attached Drawing(s) Sheets of Appeals and Interferences Licensing-related Papers Appeal Communication to Group Amendment / Reply (Appeal Notice, Brief, Reply Brief) Petition After Final Proprietary Information Petition to Convert to a Affidavits/declaration(s) Provisional Application Status Letter Power of Attorney, Revocation Change of Correspondence Address Other Enclosure(s) (please Extension of Time Request identify below): Terminal Disclaimer Form 1449 and Copies of Cited References; Return Receipt Postcard Express Abandonment Request Request for Refund

Information Disclosure Statement CD, Number of CD(s)_ Certified Copy of Priority Document(s) Remarks Response to Missing Parts/ Customer No. 22801 Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Richard J. Holzer, Jr.; 42,668 Individual name Signature Date 2-04

CERTIFICATE OF MAILING hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date: _Jan. 2, 2004

Hope A. Charles Typed or printed name

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INFORMATION DISCLOSURE STATEMENT

References -- See Attached Form PTO-1449

REMARKS

With regard to the above-identified application, the documents listed on the enclosed Form 1449 are brought to the attention of the Examiner. A copy of each document listed on the enclosed Form 1449 is provided. Consideration of the listed documents is respectfully requested. Additionally, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

No representation is made that any of the documents listed in the enclosed Form 1449 constitute prior art or are in any way material to the subject matter of the above-identified application

Date: 1-2-04

Respectfully Submitted.

Richard J. Holzer, Jr.

Reg. No. 42,668

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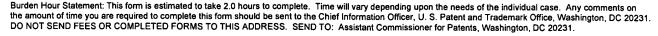
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				U.S. PATENT DOCL	JMENTS	
Examiner Initials*	Cite No.1	U.S. Patent I Number	Document Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5,359,362		Lewis, et al.	10-25-1994	
		6,072,496		Guenter, et al	06-06-2000	
		6,304,288		Hamagishi	10-16-2001	
		09/528,827		Microsoft Corporation	03-20-2000	Filing Date
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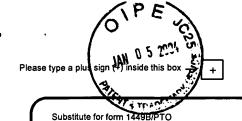
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¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



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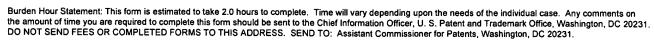
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		NON PATENT LITERATURE DOCUMENTS	_
xaminer nitials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BASU, Sumit, ESSA, Irfan, PENTLAND, Alex; "Motion Regularization for Model-Based Head Tracking." In Proceedings of International Conference on Pattern Recognition, Wien, Austria, 1996 IEEE, pp. 611-616.	
		BELHUMEUR, Peter N.; MUMFORD, David "A Bayesian Treatment of the Stereo Correspondence Problem Using Half-Occluded Regions" IEEE Conference on Computer Vision and Pattern Recognition, 1992, 8pgs	
		BLACK, Michael J., YACOOB, Yaser; "Tracking and Recognizing Rigid and Non-Rigid Facial Motions Using Local Parametric Models of Image Motion"; IEEE Proceedings of International Conference on Computer Vision, Cambridge, MA, 1995, pgs 374-381	
		BOBICK, Aaron F., INTILLE, Stephen S.; "Large Occlusion Stereo"; HCV 1999, pgs 1-25	
		CHEN, Shenchang Eric, WILLIAMS, Lance; "View Interpolation for Image Synthesis"; SIGGRAPH, 1993, pgs. 1-7	
		CHOI, Chang Seok, AIZAWA, Kiyoharu, HARASHIMA, Hiroshi, TAKEBE, Tsuyoshi; "Analysis and Synthesis of Facial Image Sequences in Model-Based Image Coding" IEEE Transaction on Circuits and Systems for Video Technology v. 4, n 3 June 1994, pgs 257-275	
	٠	COX, Ingemar J., HINGORANI, Sunita L., RAO, Satish B., MAGGS, Bruce M.; "A Maximum Likelihood Stereo Algorithm" Computer vision and Image Understanding, May 1996, pgs 542-567 (1-47)	
		DARRELL, Trevor, BABACK, Moghaddam, PENTLAND, Alex P.; "Active Face Tracking and Pose Estimation in an Interactive Room" IEEE Computer Vision and Pattern Recognition, 1996, pgs 67-72 (1-16)	
		DeCARLO, Douglas, METAXES, Dimitris; "Optical Flow Constraints on Deformable Models with Applications to Face Tracking" International Journal of computer Vision, 2000, pgs 99-127 (1-42)	
		GEMMELL, Jim, TOYAMA, Kentaro, ZITNICK, C. Lawrence, KANG, Thomas, SEITZ, Steven; "Gaze Awareness for Video-Conferencing: A Software Approach" Oct - Dec, 2000, pgs 26-35	
		HORPRASERT, Thanarat, YACOOB, Yaser, DAVIS, Larry S.; "Computing 3-D Head Orientation From a Monocular Image Sequence"; Interantional Conference Automatic Face and Gesture Recognition, 1996, pgs 242-247	

Examiner		Date	
Signature		Considered	

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.



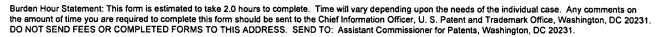
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		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	publisher, city and/or country where published.						
		ISHIKAWA, Hiroshi, GEIGER, Davi; "Occlusions, Discontinuities, and Epipolar Lines in Stereo" The Fifth European Conference on Computer Vision (ECCV '98) June 1998, Germany pgs 1-14						
		KOLMOGOROV, Vladimir, ZABIH, Ramin; "Multi-Camera Scene Reconstruction via Graph Cuts"; Proc. Europ. Conf. Computer Vision, Copenhagen, Denmark, May 2002, pgs 1-16						
		LI, Haibo, ROIVAINEN, Pertti, FORCHHEIMER, Robert; "3-D Motion Estimation in Model-Based Facial Image Coding" IEEE Transactions on Pattern Analysis and Machine Intelligence, v. 15, n 6, June 1993, pgs 545-555	·					
		LIU, Zicheng, ZHANG, Zhengyou, JACOBS, Chuck, COHEN, Michael; "Rapid Modeling of Animated Faces from Video" Proceedings of the Fourth IEEE International Conference on Automatic Face and Gesture Recognition Feb 2000, pgs 58-67						
		LOOP, Charles, ZHANG, Zhengyou; "Computing Rectifying Homographies for Stereo Vision" Technical Report MSR-TR-99-21, 14 pgs						
		LU, Le, ZHANG, Zhengyou, SHUM, Heung-Yeung, LIU, Zicheng, CHEN, Hong; "Model and Exemplar-Based Robust Head Pose Tracking Under Occlusion and Varying Expression" IEEE Computer Soc. Conf. on Computer Vision & Pattern Recog., Dec. 2001, Hawaii, USA, pgs 1-8						
		NEWMAN, Rhys, MATSUMOTO, Yoshio, ROUGEAUX, Sebastien, ZELINSKY, Alexander; "Real- Time Stereo Tracking for Head Pose and Gaze Estimation" IEEE 2000 pgs 122-128						
		OHTA, Yuichi, KANADE, Takeo; "Stereo by Intra-and Inter-Scanline Search Using Dynamic Programming" IEEE 1985, 16 pgs						
		ROY, Sebastien, COX, Ingemar J.; "A Maximum-Flow Formulation of the N-Camera Stereo Correspondence Problem" IEEE Proc. of Int. Conference on Computer Vision, Bombai, January 1998, pgs 492-499						
		SCHARSTEIN, Daniel, SZELISKI, Richard, ZABIH, Ramin; "A Taxonomy and Evaluation of Dense Two-Frame Stereo Correspondence Algorithms"; International Journal of Computer Vision, 2002, 10pgs						
		SCHARSTEIN, Daniel, "Stereo Vision for View Synthesis" IEEE Computer Society Conference on Computer Vision and Pattern Recognition, San Francisco, CA, June 1996 pgs 852-858						

Examiner	Date	
Signature	Considered	

¹ Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.



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		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	lo.1 publisher, city and/or country where published.						
		SHI, Jianbo, TOMASI, Carlo; "Good Features to Track"; IEEE Conference on Computer Vision and Pattern Recognition, Seattle WA, June 1994, 7pgs						
		SUN, Jian, SHUM, Heung-Yeung, ZHENG, Nan-Ning; "Stereo Matching Using Belief Propagation" ECCV 2002, pgs 510-524						
		SZELISKI, Richard; "Prediction Error as a Quality Metric for Motion and Stereo" Vision Technology Group Microsoft Research, Proceeding of the International Conference on Computer Vision, Vol 2, Corfu, Greece, 1999, 8pgs						
		VETTER, Thomas "Synthesis of Novel Views From a Single Face Image" Max-Planck-Institut, Germany, Technical Report No. 26, Feb. 1996, pgs 1-13						
		YANG, Ruigang, ZHANG, Zhengyou; "Eye Gaze Correction with Stereovision for Video- Teleconferencing" Proceedings from the European Conference of Computer Vision, Vol 2, Copenhagen, Denmark May 2002, pgs 479-494						
		ZHANG, Zhengyou, LIU, Zicheng, ADLER, Dennis, COHEN, Michael F., HANSON, Erik, SHAN, Ying; "Robust and Rapid Generation of Animated Faces from Video Images: A Model-Based Modeling Approach" Technical Report MSR-TR-2001-101 pgs 1-30						
			 					
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Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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